



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

D10PS20LHM--D10PS100LHM

FEATURES



- Super long operating life
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This product not contains Antimony and Bromine compounds (rFR)

MECHANICAL DATA

- Case: TO-277B molded plastic body
- Mounting position: ANY

Maximum Ratings (@TA = 25°C unless otherwise specified)

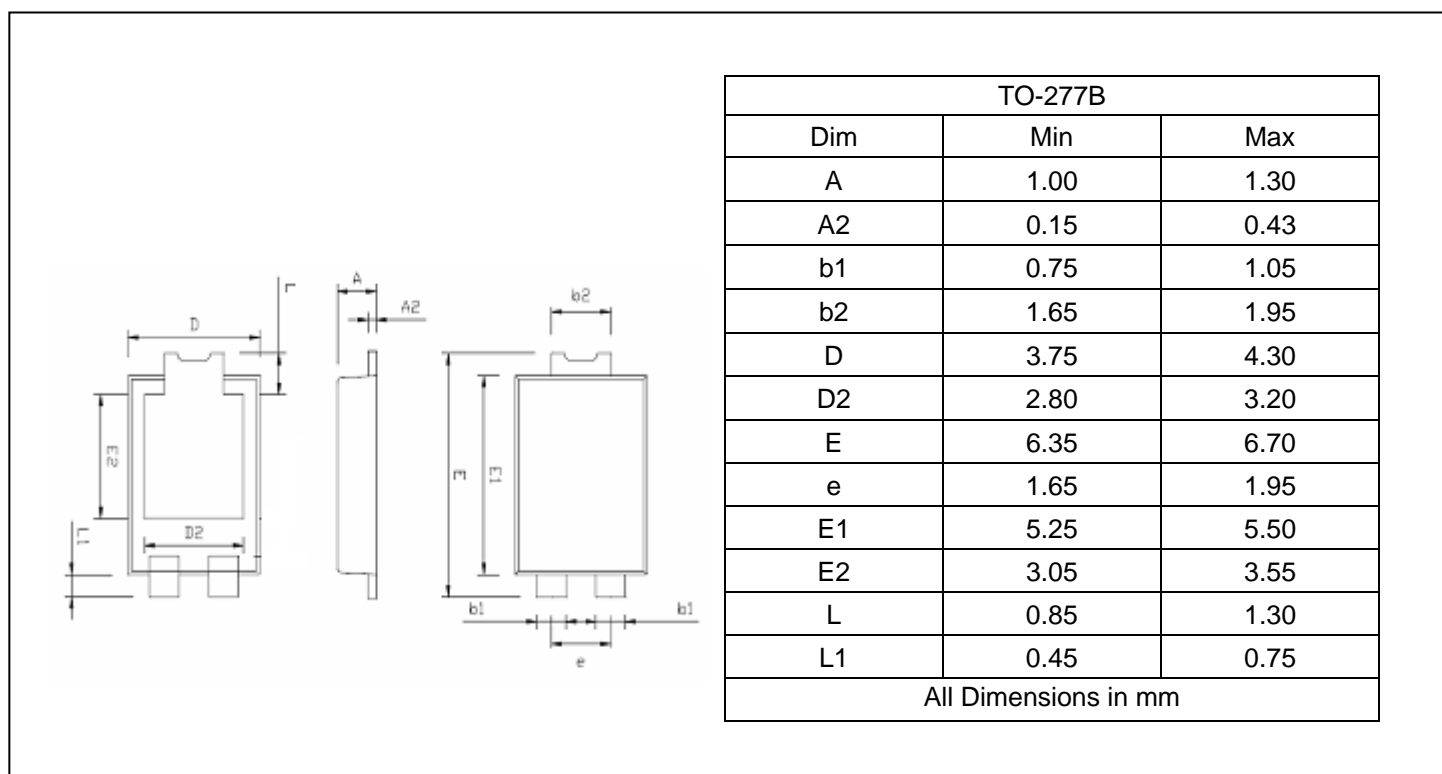
Characteristic	Symbol	D10PS 20LHM	D10PS 30LHM	D10PS 40LHM	D10PS 45LHM	D10PS 50LHM	D10PS 60LHM	D10PS 90LHM	D10PS 100LHM	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	45	50	60	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	31.5	35	42	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	45	50	60	90	100	V
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	10								A
Peak forward surge current 8.3ms single half sine -wave	I_{FSM}	250								A

Thermal Characteristics

Characteristic	Symbol	D10PS 20LHM	D10PS 30LHM	D10PS 40LHM	D10PS 45LHM	D10PS 50LHM	D10PS 60LHM	D10PS 90LHM	D10PS 100LHM	UNITS	
Operating temperature range	T_J	- 55 ---- +125							- 55 ---- +150		°C
Storage temperature range	T_{STG}	- 55 ---- +150								°C	

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	D10PS 20LHM	D10PS 30LHM	D10PS 40LHM	D10PS 45LHM	D10PS 50LHM	D10PS 60LHM	D10PS 90LHM	D10PS 100LHM	UNITS	
Maximum instantaneous forward voltage at $I_{FM}=10.0\text{A}$	V_F	0.47					0.56	0.66		V	
Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=100^\circ\text{C}$	I_R	0.5					50				m A

**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS**
D10PS20LHM--D10PS100LHM
PACKAGE OUTLINE DIMENSIONS

PACKAGE INFORMATION

Device	Package	Shipping
D10PS20LHM-D10PS100LHM	TO-277B	4000/Tape&Reel